SONY

3-189-879-02(1)

Remote Control Unit

Instructions for Use Page 15 **Gebrauchsanweisung** Seite 35

RM-C950

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The RM-C950 remote control unit is designed to be used with Sony 3CCD color video cameras.
The unit plugs into the ⊡ REMOTE (remote) connector of the following cameras:

- DXC-950
- DXC-950P
- DXC-970MD

Be sure to also read the instruction manuals for the connected video cameras when using this unit.

For customers in the U.S.A.
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

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Precautions

This Sony product has been designed with safety in mind. However, if not used properly, electrical products can cause fires which may lead to serious bodily injury.
To avoid such accidents, be sure to heed the following.

In case of a breakdown

In case of unit breakdown, discontinue use and contact your authorized Sony dealer.

In case of abnormal operation

- If the unit emits smoke, unusual sounds or smells,
- If water or other foreign objects enter the cabinet, or
- If you drop the unit or damage the cabinet:

1 Cut the power supplied to the unit.

2 Disconnect the connector cable.

3 Contact your authorized Sony dealer or the store where you purchased the product.

Safety Precautions

Note

To ensure the safe operation of this unit, be sure to heed the following precautions.

Do not allow foreign matter to enter the unit

Allowing water or other foreign matter to enter the cabinet may lead to fire. If water or other foreign objects happen to enter the cabinet, switch off the power supplied to the unit, disconnect the DC power/connection cable and contact your authorized Sony dealer.

Do not dismantle or modify the unit

Disassembly or modification of the unit may lead to fire, and/or injury. Leave all adjustments, inspections and repairs of internal components to your authorized Sony dealer.

Use recommended power supplies

Be sure to use the power supply specified in this manual. An unspecified power supply used with this unit may become a fire hazard.

Use recommended DC cables and connection cables

Use of DC cables and connection cables other than those specified in this manual may lead to fire.

Do not install or operate in environments subject to high levels of smoke, steam, humidity or oil

Operation in any of the above environments may lead to fire. Use of this product in environments other than those specified in this manual may lead to fire.

Do not place the unit on an unstable base

The unit may fall, causing physical injury if used in any of the following places:
- On top of a shaky, unstable table
- On inclined surfaces
- In places subject to vibration or shock

Check that the place of attachment is strong enough to support the weight of this unit, and that the unit and attachment device are secure.

Disconnect the DC/connection cable before moving the unit

If the unit is moved with the DC/ connection cable still attached, the cable may be damaged, resulting in fire.

Operating Precautions

Operating or storage location

Avoid operating or storing the unit in the following locations:
- Extremely hot or cold places (Operation temperature: –5°C to +45°C [23°F to 113°F])
- In direct sunlight for long periods, or close to heating equipment (e.g., near heaters)
- Close to sources of strong magnetism
- Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters

Ventilation

To prevent internal heat buildup, do not block air circulation around the unit.

Transportation

When transporting the unit, repack it as originally packed at the factory or in materials equal in quality.

Cleaning

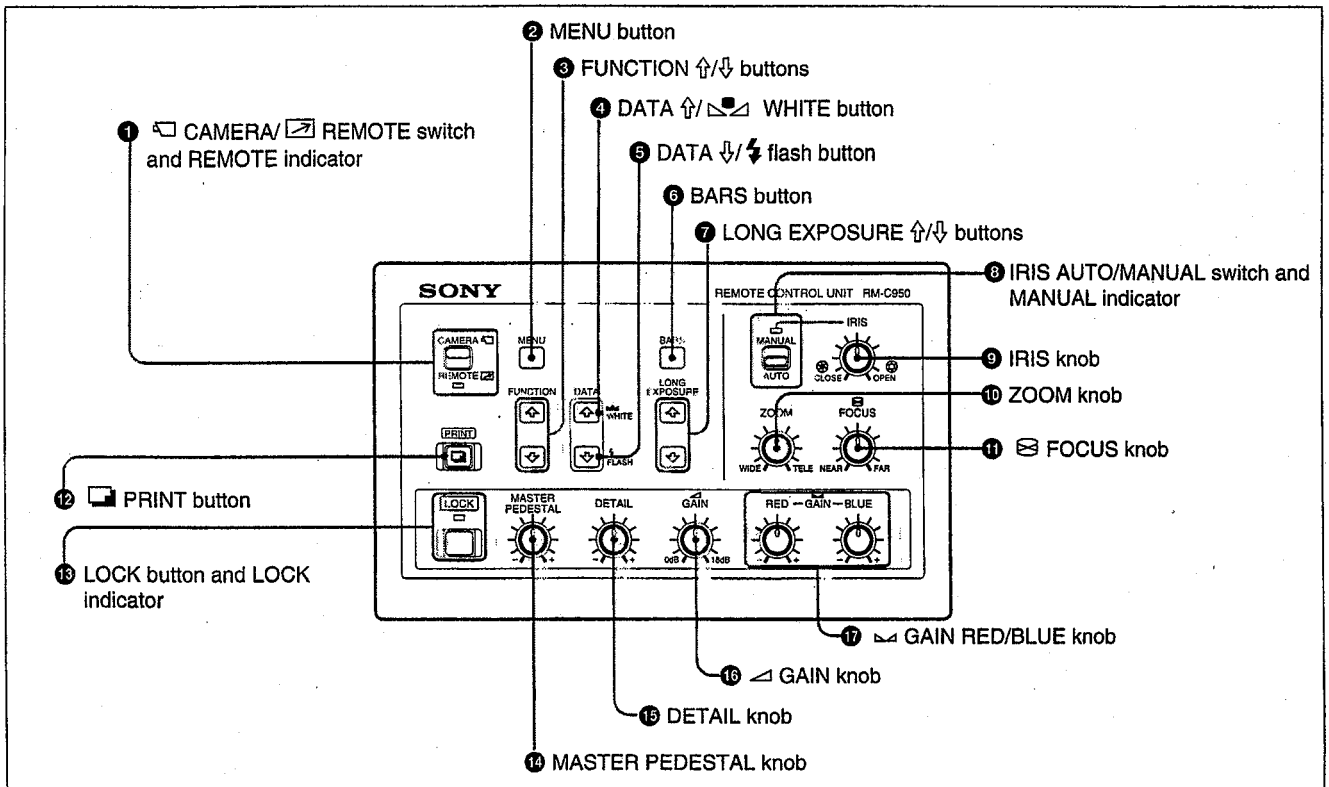
- Use a soft, dry cloth to clean the external surfaces of the unit. If it is very dirty, use a soft cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finish.

Precautions when connecting to a camera

Before connecting the DXC-950/950P/970MD camera to the RM-C950, be sure to set the baud rate in the camera to 9600. You will not be able to adjust the baud rate after the camera is connected. The camera can only be controlled with a baud rate of 9600.

Locations and Functions of Parts

Control Panel



❶ CAMERA/REMOTE (camera/remote) switch and REMOTE (remote) indicator

CAMERA: For operating the video cameras DXC-950/ /950P/970MD (not supplied) by the on-camera controls.

REMOTE: For operating the video cameras DXC-950/ DXC-950P/DXC-970MD (not supplied) from this remote control unit. The REMOTE indicator lights up when the switch is in the REMOTE position.

❷ MENU (menu recall) button

Pressing this button for one second brings up the operational settings menu on the screen of the monitor connected to the camera. Press again to hide the menu.

❸ FUNCTION ⇧/⇩ (cursor up/down) buttons

Press the ⇧ button to move the menu cursor upwards.
Press the ⇩ button to move the menu cursor downwards.

❹ DATA ⇧/WHITE (setting value increase/ white balance adjustment) button

With the menu displayed: increases setting value.
With the menu hidden: activates the automatic white balance adjustment function when "WHT. Bal" (white balance) is set to "auto".

❺ DATA ⇩ (setting value reduction)/ flash button

With the menu displayed: decreases the setting value.

Note

The baud rate setting in the "4. System Setup menu" cannot be adjusted from this control unit.

With the menu hidden: activates the flash button when in the flash mode.

❻ BARS (color bars output) button

Pressing this button for one second outputs the color bars signal. Press again to revert to video signal output.
For monitor adjustment, contact your authorized Sony dealer.

❼ LONG EXPOSURE (accumulation time adjustment) ⇧/⇩ buttons

Adjusts the accumulation time (number of frames) when in the long exposure mode and when menu is hidden. Accumulation time values are displayed on the monitor screen for about one second.
Press the ⇧ button to increase accumulation time.
Press the ⇩ button to reduce accumulation time.

❽ IRIS AUTO/MANUAL (iris automatic/manual) switch and MANUAL indicator

Switch to AUTO to set to automatic adjustment mode.
Switch to MANUAL to allow the iris to be adjusted manually with the IRIS knob. The MANUAL indicator lights up when in the manual mode.

❾ IRIS (iris adjustment) knob

Adjusts the iris manually.
Turn towards the CLOSE side to close the iris.
Turn towards the OPEN side to open the iris.
When adjusting the iris manually, set the IRIS AUTO/MANUAL switch to MANUAL.

❿ ZOOM (zoom adjustment) knob

Adjusts the zoom.
Turn towards the WIDE side to increase the scope of the image.
Turn towards the TELE side to decrease the scope of the image.

Note

The ZOOM knob only operates when the zoom lens VCL-712BXEA (not supplied) or the VCL-716BXEA (not supplied) has been attached.
For details, refer to the instruction manuals accompanying each lens.

⓫ FOCUS (focus adjustment) knob

Adjusts the FOCUS.
Turn towards the NEAR side to bring objects close to the camera into focus.
Turn towards the FAR side to bring objects far from the camera into focus.

Note

The focus knob only operates when the zoom lens VCL-712BXEA (not supplied) or the VCL-716BXEA (not supplied) has been attached.
For details, refer to the instruction manuals of each lens.

⓬ PRINT (print) button

Outputs the image data to a printer or a printer memory in connector when the "Printer Trig." on the video cameras DXC-950/950P/970MD (not supplied) is set to "on."
For details on connecting with a printer, refer to the instruction manuals for the DXC-950/950P/970MD video cameras.

⓭ LOCK (lock) button and LOCK (lock) indicator
Locks the settings of knobs ⓮ to ⓱.
The LOCK indicator lights up when the settings have been locked.

⓮ MASTER PEDESTAL (pedestal level) knob
Adjusts the output signal pedestal level for the R, G, B channels simultaneously.

⓯ DETAIL (outline sharpness) knob
Adjusts the sharpness of outlines in the picture.

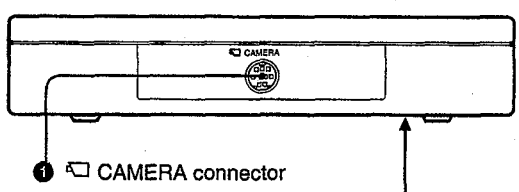
⓰ ◿ GAIN (gain) knob
Adjusts the level of video output signals to compensate for poor lighting conditions. The GAIN knob only works when the "Gain" setting of the video camera DXC-950/950P/970MD (not supplied) has been set to "step". The gain may be set from 0 dB to 18 dB.

⓱ ◿ GAIN RED/BLUE (white balance adjustment) knob
Adjusts the white balance.
RED: Adjusts the red gain.
BLUE: Adjusts the blue gain.
The GAIN RED/BLUE knob only operates when the "WHT. Bal" setting of the DXC-950/950P/970MD video camera (not supplied) has been set to "manu".

Note

If you switch the CAMERA/REMOTE switch to CAMERA or disconnect the control cable after setting knobs ⓮ to ⓱ on the remote control unit, the settings will revert back to those previously set in the camera.

Rear Panel



There are two screw holes in the bottom of the unit. These allow the unit to be attached to a rack. For details on usage, contact the store where you purchased the unit, or your authorized Sony dealer.

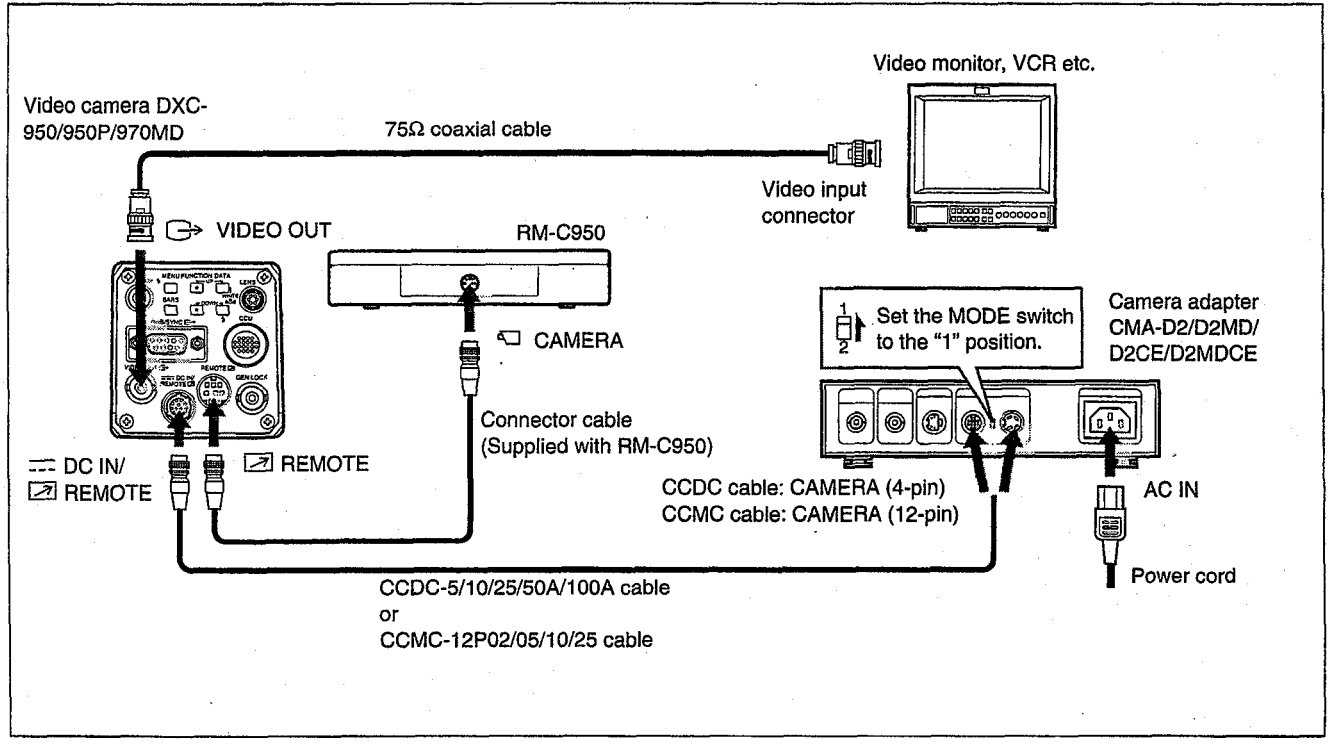
❶ CAMERA (camera) connector (mini DIN, 8-pin)
Connects to the remote connector on the video camera DXC-950/950P/970MD (not supplied) using the supplied connector cable.

Connections

Note on connections

Be sure to switch off all equipment before making any connections.

See "Precautions when connecting to a camera" on page 18.



Specifications

Input/output connectors	CAMERA connector: mini DIN 8-pin
Power source voltage	DC 12 V
Operating temperature	–5°C to +45°C (23 to 113°F)
Transport/Storage temperature	–20°C to +60°C (–4 to +140°F)
Operating humidity	20% to 80% (Do not allow condensation to form on unit.)
Transport/Storage humidity	20% to 90% (Do not allow condensation to form on unit.)
Dimensions (w/h/d)	212 × 41 × 132 mm (8 3/8 × 1 5/8 × 5 3/16 inches) (not including protruding parts)
Mass	Approx. 450 g (1 lb)
Supplied accessories	Connection cable (1) Instructions for Use (1)

Design and specifications are subject to change without notice.